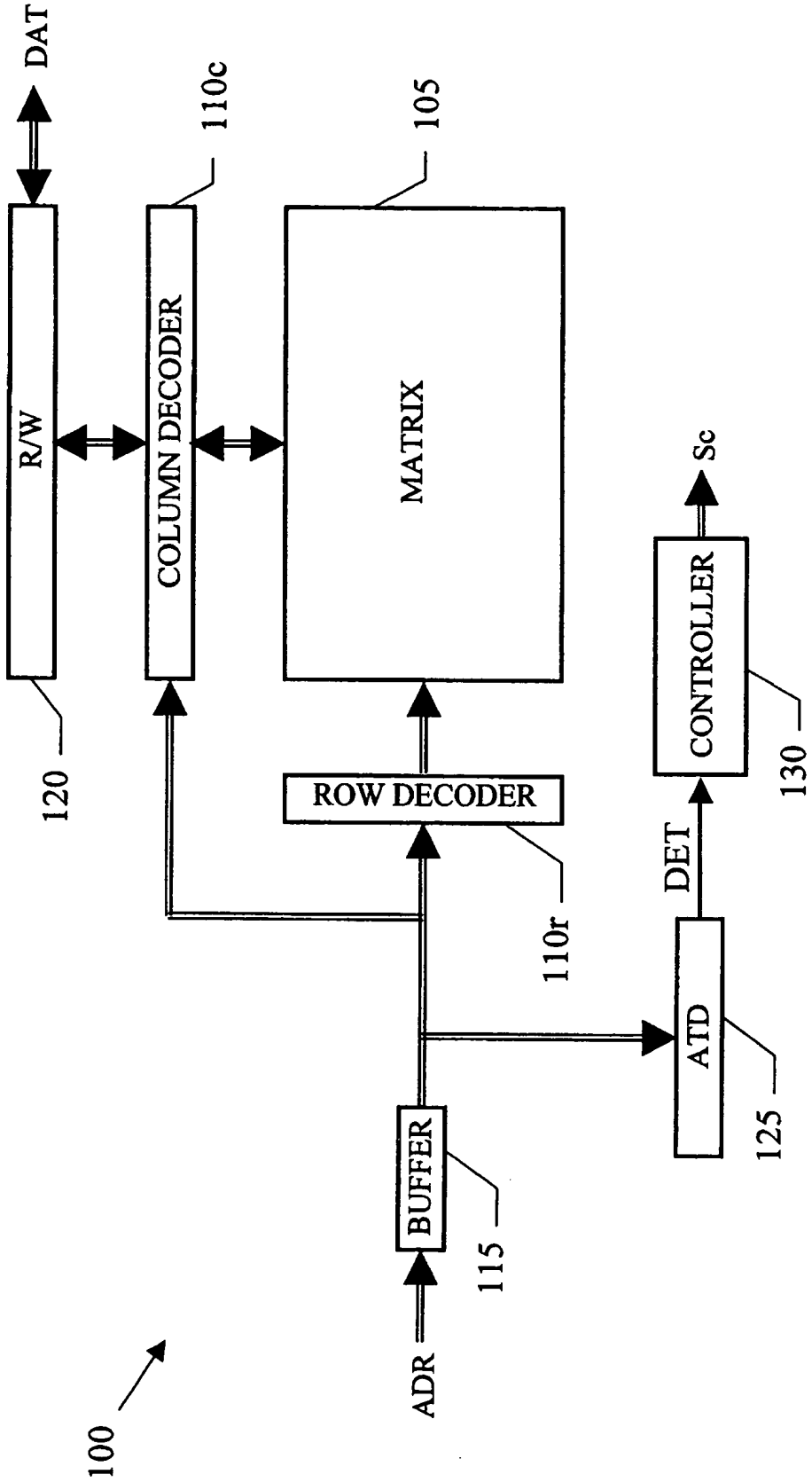
DAT
110c
105
R/W
COLUMN DECODER
MATRIX
Sc
CONTROLLER
120
ROW DECODER
130
DET
110r
ATD
125
BUFFER
115
ADR
100

FIG. 1

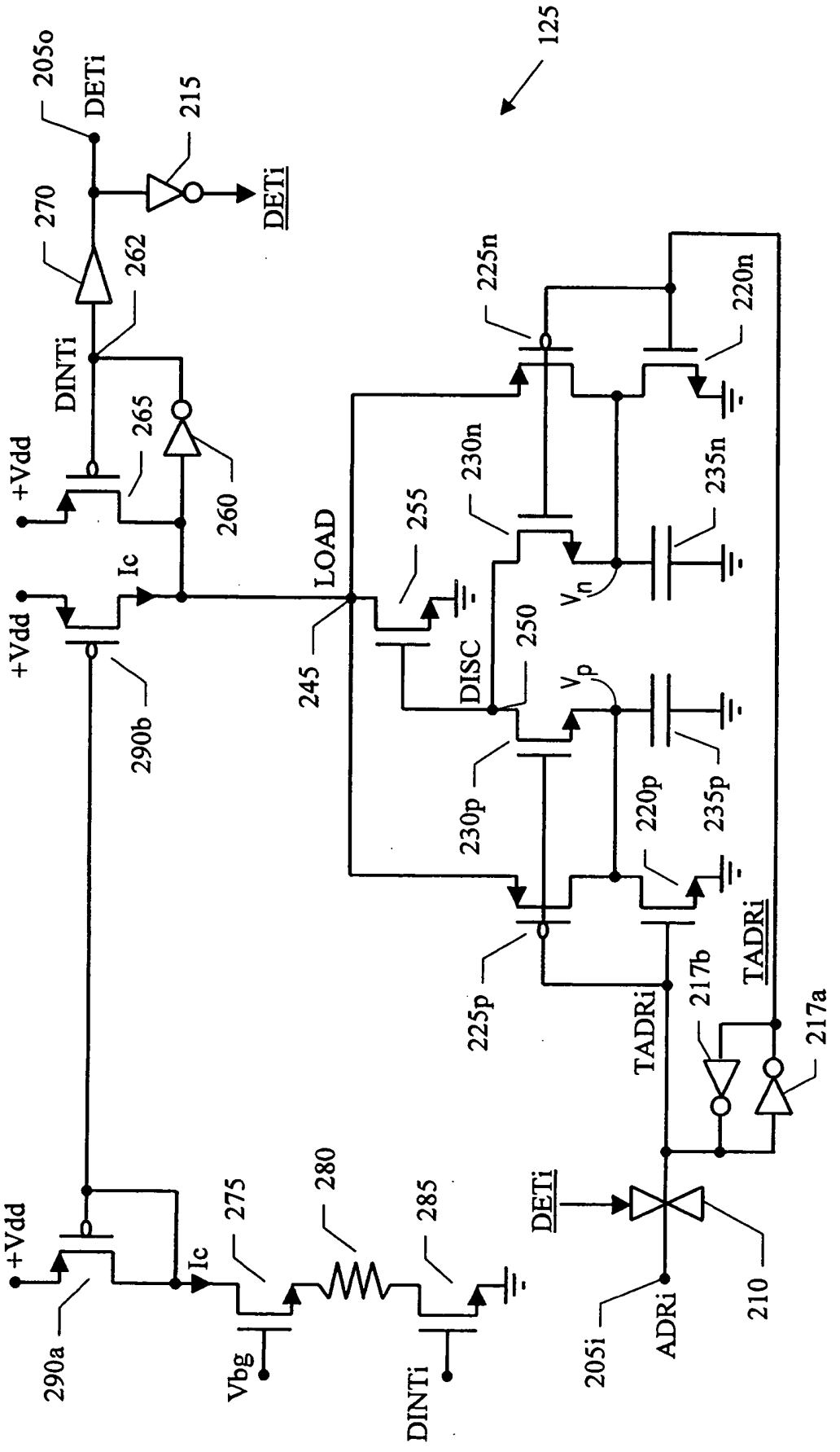
125
205o
DETi
215
DETi
270
262
DINTi
265
260
+Vdd
Ic
290b
LOAD
245
255
230n
225n
220n
235n
V_n
DISC
250
V_p
230p
220p
235p
225p
TADRi
217b
217a
TADRi
+Vdd
Ic
275
280
285
290a
Vbg
DINTi
DETi
205i
ADRi
210

FIG. 2a

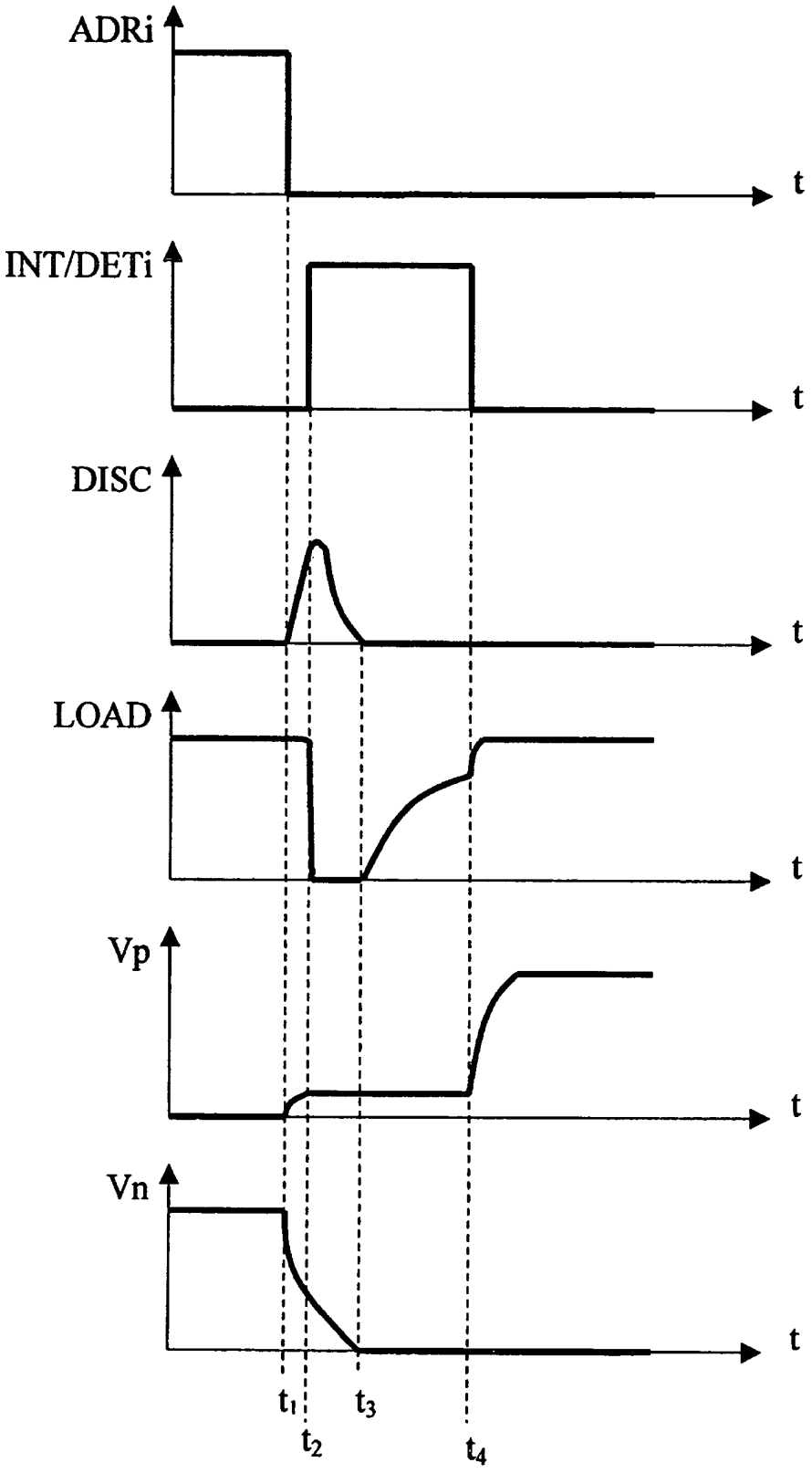

FIG. 2b

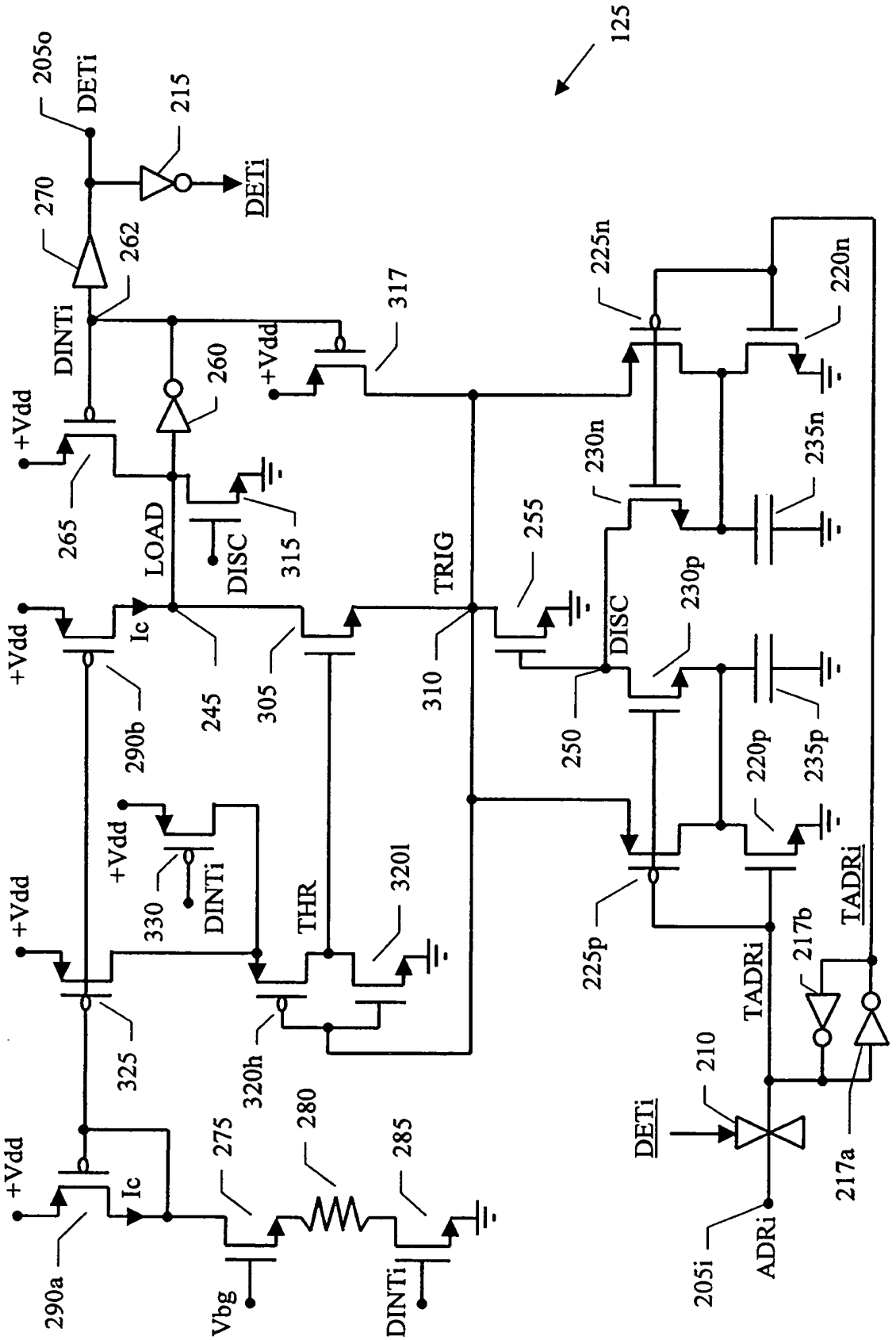
125
205o
DETi
215
DETi
270
262
DINTi
+Vdd
260
317
+Vdd
225n
220n
230n
235n
265
LOAD
DISC
315
255
TRIG
DISC
230p
+Vdd
Ic
290b
245
305
310
250
220p
235p
+Vdd
330
DINTi
THR
3201
225p
TADRi
217b
TADRi
+Vdd
325
320h
210
DETi
+Vdd
Ic
275
280
285
217a
290a
Vbg
DINTi
205i
ADRi

FIG. 3a

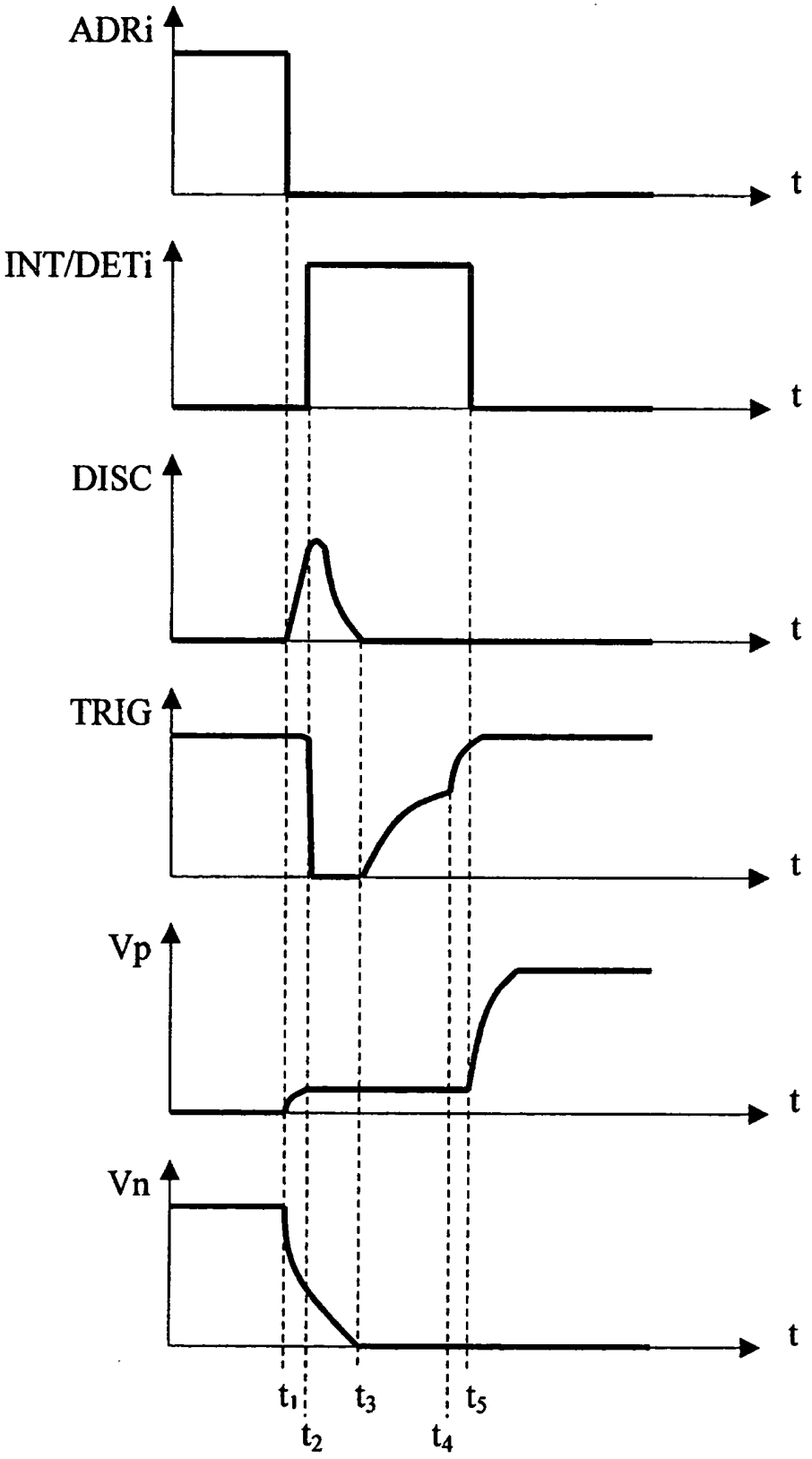

FIG. 3b

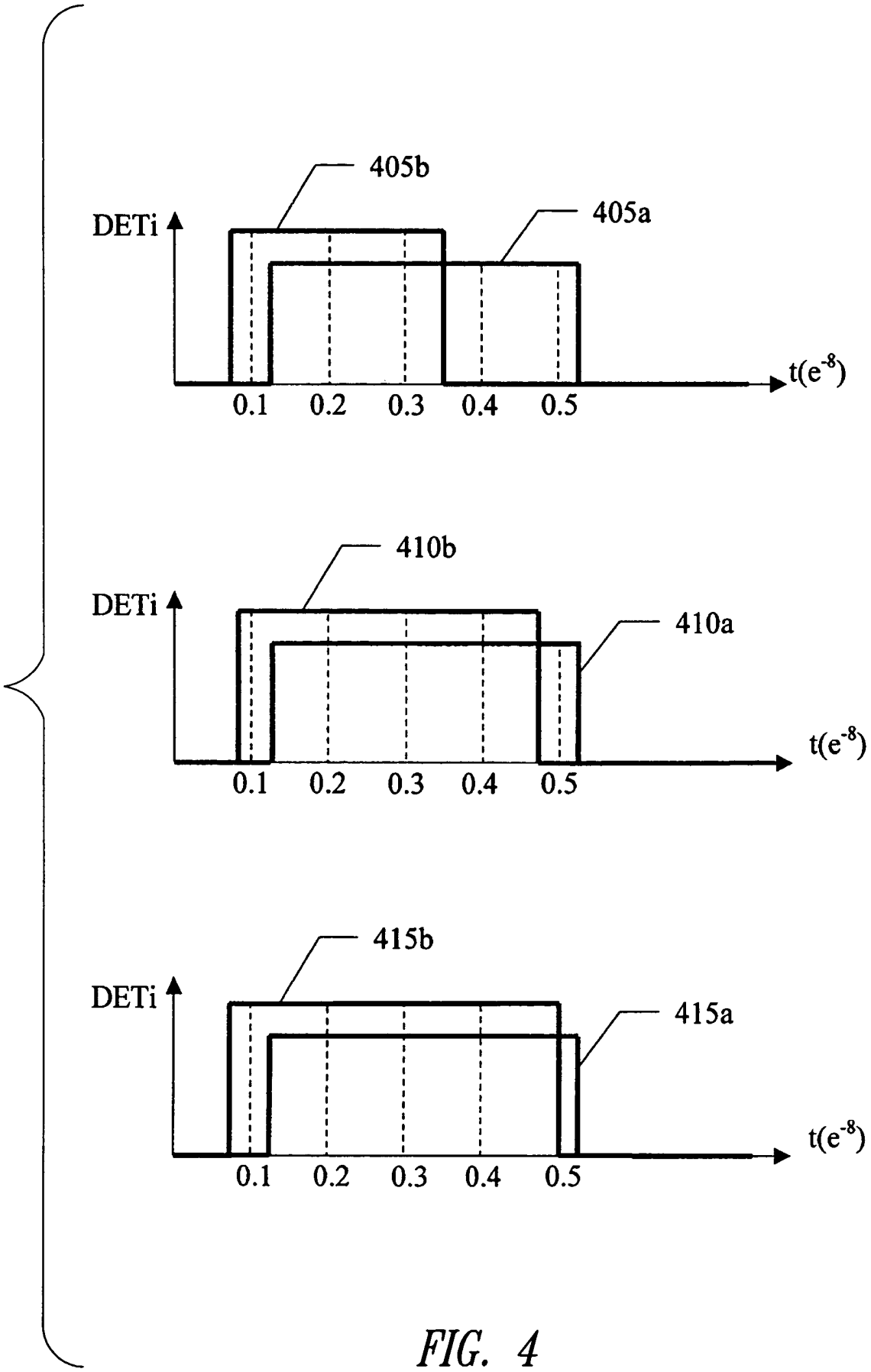
405b
405a
DETi
t(e-8)
0.1
0.2
0.3
0.4
0.5
410b
410a
DETi
t(e-8)
0.1
0.2
0.3
0.4
0.5
415b
415a
DETi
t(e-8)
0.1
0.2
0.3
0.4
0.5

FIG. 4